

## Contents of volume 37

### *Research Papers*

- A morphodynamic model to simulate the seasonal closure of tidal inlets  
R. Ranasinghe, C. Pattiaratchi and G. Masselink. . . . . 1
- The seasonal closure of tidal inlets: Wilson Inlet—a case study  
R. Ranasinghe and C. Pattiaratchi . . . . . 37
- Wave evolution over submerged sills: tests of a high-order Boussinesq model  
M.F. Gobbi and J.T. Kirby . . . . . 57
- Numerical modeling of Boussinesq equations by finite element method  
Y.S. Li, S.-X. Liu, Y.-X. Yu and G.-Z. Lai . . . . . 97
- Wave deformation and vortex generation in water waves propagating over a submerged dike  
C.-J. Huang and C.-M. Dong . . . . . 123
- Wave loads on rubble mound breakwater crown walls  
F.L. Martin, M.A. Losada and R. Medina . . . . . 149
- Linear and nonlinear wave diffraction using the nonlinear time dependent mild slope equations  
S. Abohadima and M. Isobe . . . . . 175

### *Editorial*

- Introduction to this Special Issue  
D. Prandle and L.R. Wyatt. . . . . 193

### *Research Papers*

- High-frequency radars: physical limitations and recent developments  
K.-W. Gurgel, H.-H. Essen and S.P. Kingsley. . . . . 201
- Wellen Radar (WERA): a new ground-wave HF radar for ocean remote sensing  
K.-W. Gurgel, G. Antonischki, H.-H. Essen and T. Schlick . . . . . 219
- Methods for intercomparison of wave measurements  
H.E. Krogstad, J. Wolf, S.P. Thompson and L.R. Wyatt . . . . . 235
- Evaluation of high frequency radar wave measurement  
L.R. Wyatt, S.P. Thompson and R.R. Burton . . . . . 259
- Satellite wave measurements for coastal engineering applications  
H.E. Krogstad and S.F. Barstow . . . . . 283
- Some recent developments in wave buoy measurement technology  
H.E. Krogstad, S.F. Barstow, S.E. Aasen and I. Rodriguez . . . . . 309
- Use of nautical radar as a wave monitoring instrument  
J.C.N. Borge, K. Reichert and J. Dittmer . . . . . 331
- Current measurement technology for near-shore waters  
A. Lane, P.J. Knight and R.J. Player . . . . . 343
- Application of wave spectral information in marine forecasting  
J. Guddal . . . . . 369
- Wave modelling in the PROMISE project  
J. Monbaliu, J.C. Hargreaves, J.-C. Carretero, H. Gerritsen and R. Flather. . . . . 379

Numerical wave modelling at operational weather centres	
J.-R. Bidlot and M.W. Holt . . . . .	409
Monitoring surface waves in coastal waters by integrating HF radar measurement and modelling	
C. de Valk, A. Reniers, J. Atanga, A. Vizinho and J. Vogelzang . . . . .	431
Spectral wave data assimilation for the prediction of waves in the North Sea	
A.C. Voorrips . . . . .	455
Some observations of wave–current interaction	
J. Wolf and D. Prandle . . . . .	471
Estimation of 3-D current fields near the Rhine outflow from HF radar surface current data	
C.F. de Valk . . . . .	487
Shallow water bathymetry derived from an analysis of X-band marine radar images of waves	
P.S. Bell . . . . .	513
The estimation of shear stresses from near-bed turbulent velocities for combined wave–current flows	
J. Wolf . . . . .	529
<i>Contents of volume</i> . . . . .	545